



Betofix RM

Fast repair mortar PCC (RM) for repairing concrete structures

Colour	Availability	
	Quantity per pallet	36
	Size / Quantity	25 kg
	Type of container	Paper bag
	Container code	25
	Art. no.	
grey	1092	■

Application rate

Approx. 1.2 kg/m²/mm layer thickness, or 1.2 kg/dm³



Range of use



- Concrete replacement according to
 - DIN EN 1504-3
 - Rili-SIB DafStb 2001
- Concrete replacement for non-structurally relevant repairs
- Repair of pores, missing and broken out areas

Property profile

- Early strength
- Very low shrinkage
- Well suited to overhead working
- Can be applied by spatula and felted
- Freeze/thaw-resistant

Planning information

Betofix RM - Classification					
acc. to Rili-Sib 2001	M1				
acc. to DIN EN 1504-3	R1				
Old concrete classes	A2				
Reaction to fire	Class E				
Application					
Repair principles/procedures	3.1	3.2	3.3	7.1	7.2

Characteristic data of the product



Water requirement	Approx. 4.7 - 5.0 l/25 kg
Capillary water uptake	≤ 0.5 kg/(m ² h ^{0.5})
Compressive strength	3 hours: approx. 3 N/mm ² 24 hours: approx. 6 N/mm ² 28 days: > 10 N/mm ²
Surface tensile strength	> 0.8 N/mm ²
Maximum grain size	0.5 mm
Bulk density of fresh mortar	Approx. 1.7 kg/dm ³
Consistency of the mixture	For filling

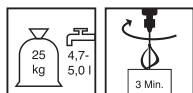
The values stated represent typical characteristic data of the product and are not to be understood as binding product specifications.

- Possible system products
- > **S-Protect M (0919)**
 - > **Betofix NBM (1230)**

Preparation

- **Substrate preparation**
Concrete surface:
 Stable, clean, dust-free
 Observe the applicable technical regulations for the following parameters:
 - Adhesive pull strength of the substrate
 - Minimum roughness/roughness depth
 Pre-wet the substrate so that it is slightly moist.
 Reinforcement:
 Degree of purity SA 2 ½ if applying corrosion protection, otherwise SA 2

Production of the mixture

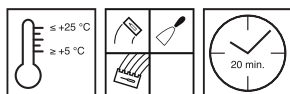


- **Mixing**
Concrete replacement
 Prepare water, add dry mortar and mix until homogeneous.

Mixing time: approx. 3 minutes

Corrosion protection:
 Produce a homogeneous mixture:
 1 part by weight S-Protect M : 2.5 parts by weight dry mortar.
 Stir for at least 3 minutes.

Directions



- **Conditions for use**
 Temperature of the material, air and substrate: from min. +5 °C to max. +30 °C.
 Low temperatures increase, while high temperatures decrease the working and setting time.
 Once it has hardened, mortar must not be made workable again by adding either water or more wet mortar.

Working time
 (+20 °C): approx. 20 minutes

Layer thickness



Single layer 1.5 - 10 mm
 Two layers < 20 mm, apply wet-on-wet
 In broken-out areas < 100 mm

Applying corrosion protection:

Apply to layers of grout with a thickness of 1 mm each making sure the entire surface is covered.

Waiting time between layers: approx. 30 minutes.

Subsequent processing

Protect fresh mortar surfaces from wind, direct sunlight, rain and/or frost for at least 3 days so that they do not dry too quickly.

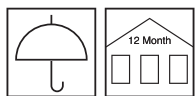
Tools / Cleaning



Mixing tool, paintbrush, filling knife, trowel, smoothing trowel, sponge float, plasterer's float

Clean tools with water while the material is still fresh.

Storage / Shelf life



If stored in an unopened container and in a dry place, the product will keep for approx. 12 months.

Safety data / Regulations

For further information on the safety aspects of transporting, storing and handling the product and on disposal and environmental matters, please see the current Safety Data Sheet.

Disposal

Larger quantities of leftover product should be disposed of in the original containers in accordance with the applicable regulations. Completely empty, clean containers should be recycled. Do not dispose of together with household waste. Do not allow to enter the sewage system. Do not empty into drains.



Declaration of conformity



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CE 09 / UKCA 21

GBI P3-3

EN 1504-3: 2005

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PCC mortar for non structural repair for concrete

Compressive strength:	class R1
Chloride ion content:	≤ 0.05 %
Adhesive bond:	≥ 0.8 MPa
Carbonation resistance:	NPD
Elastic modulus:	NPD
Thermal compatibility:	≥ 0.8 MPa
Skid resistance:	NPD
Reaction to fire:	class E

Please note that the data and information given above have been calculated as guidelines in the laboratory and from real-life experience and are therefore not binding as a basic principle.

This information is therefore of a general nature only and describes our products and how they are used and worked with. In this respect, it must be borne in mind that the varied and diverse nature of the

prevailing working conditions, materials used and construction sites encountered means that not every individual case can be covered. In this respect, we therefore recommend either conducting tests or liaising with us in the event of any doubt. Unless we have provided express written assurance of the products' specific suitability or characteristics in respect of a contractually stipulated intended use, any technical application-related advice or instruction will never

be binding, even though it is provided to the best of our knowledge. In all other respects, our general terms and conditions of sale and delivery shall apply.

When a new version of this Technical Data Sheet is published, it shall replace the previous version.